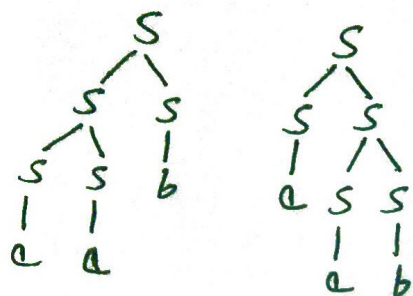


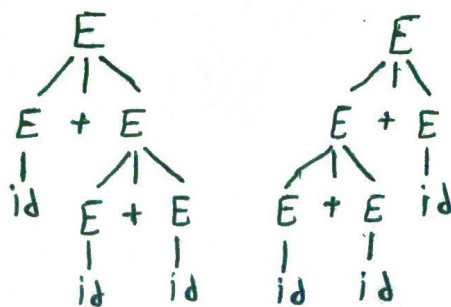
Slide 7

$$S \rightarrow SS | a | b$$



Ambiguous
aab

$$E \rightarrow E + E | id$$



Ambiguous
id + id + id

$$S \rightarrow Sa | Sb$$

Un ambiguous
ended always with a or b

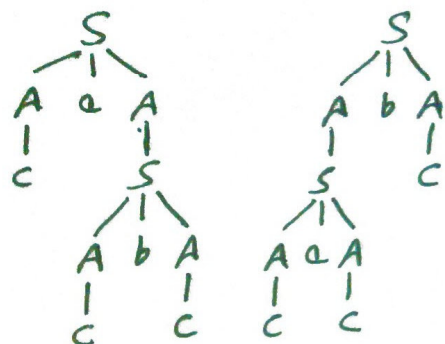
$$E \rightarrow E' | E' + E$$

$$E' \rightarrow -E' | id | (E)$$

Un ambiguous
 E' used to ~~clear~~ avoid
the ambiguous

$$S \rightarrow AaA | AbA$$

$$A \rightarrow c | S$$

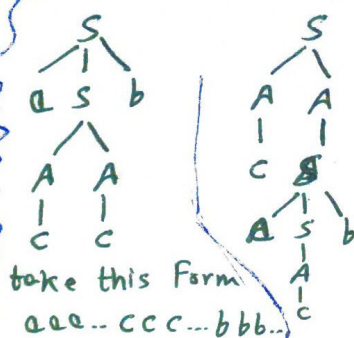


Ambiguous
cacbc

$$S \rightarrow aSb$$

$$S \rightarrow AA$$

$$A \rightarrow c | S$$

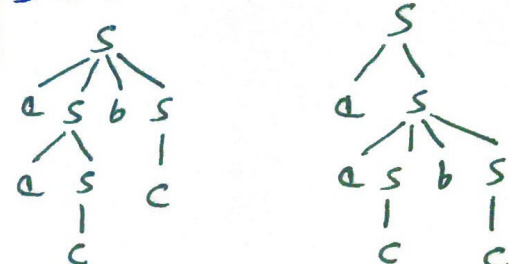


take this form
aaa...ccc...bbb...
An ambiguous

$$S \rightarrow aSbS$$

$$S \rightarrow aS'$$

$$S \rightarrow c$$



Ambiguous
aacbc

To avoid ambiguous \rightarrow we try to separate ambiguous states

$$S \rightarrow AaA | (AbA)$$

$$A \rightarrow c | S$$

$$S \rightarrow AaA | B$$

$$A \rightarrow c | S$$

$$B \rightarrow AbA$$

Slide 16

most suitable solution

$$S \rightarrow Sa | Sb | \epsilon$$

The correct solution

$$S \rightarrow S'a | S'b$$

$$S' \rightarrow S | \epsilon$$